Amendments to the Claims

1. (CURRENTLY AMENDED) Panel-shaped acoustic wave generator ~~(1A; 1B; 101),~~ comprising:
at least one plate ~~(2, 3; 102, 103);~~
acoustic transducer means ~~(4; 140)~~ for of causing said plate to vibrate;
feedback means ~~(10)~~ for generating a feedback signal and
comprising a motion sensor ~~(9)~~ having at least one sensor component ~~(11, 12; 14; 111B, 112B)~~ mechanically coupled to said plate ~~(2, 3; 3; 102, 103).~~

2. (CURRENTLY AMENDED) Wave generator according to claim 1, the at least one plate ~~(2, 3; 102, 103)~~ comprising a first plate ~~(2; 102)~~ and a second plate ~~(3;103)~~ arranged substantially parallel at a distance ~~(D)~~ from each other;
said motion sensor ~~(9)~~ comprising a first sensor component ~~(11; 111B)~~ mechanically coupled to the first plate ~~(2; 102)~~ and a second sensor component ~~(12; 112B)~~ mechanically coupled to the second plate ~~(3; 103).~~

3. (CURRENTLY AMENDED) Wave generator according to claim 1, wherein said motion sensor ~~(9)~~ comprises a reference component ~~(5)~~ cooperating with said one sensor component ~~(14)~~, said reference component ~~(5)~~ preferably being a third plate arranged substantially parallel to said one plate ~~(3)~~ at a distance therefrom.

4. (CURRENTLY AMENDED) Wave generator according to claim 1, wherein said at least one sensor component ~~(11, 12; 14; 111B, 112B)~~ is integrated in the corresponding plate ~~(2, 3; 3; 102, 103).~~

5. (CURRENTLY AMENDED) Wave generator according to claim 2, wherein said feedback means ~~(10)~~ are adapted to generate a feedback signal ~~(S_A)~~ representing a relative motion of at least a portion of the first plate ~~(2;102)~~ with respect to at least a portion of the second plate ~~(3;103).~~

6. (CURRENTLY AMENDED) Wave generator according to claim 3, wherein said feedback means ~~(10)~~ are adapted to generate a feedback signal ~~(S_A)~~

representing a relative motion of at least a portion of said plate ~~(3)~~ with respect to said reference component ~~(5)~~.

7. (CURRENTLY AMENDED) Wave generator according to claim 2, wherein said motion sensor ~~(9)~~ is a capacitive sensor.

8. (CURRENTLY AMENDED) Wave generator according to claim 2, wherein said first and second plates ~~(102, 103)~~ comprise a front plate ~~(103)~~ and a back plate ~~(102)~~, respectively, of a display device ~~(100)~~ comprising an array of display cells ~~(110)~~, each display cell ~~(110)~~ comprising a first electrode ~~(111)~~ connected to said back plate and a second electrode ~~(112)~~ connected to said front plate with a dielectric medium ~~(104)~~ arranged between said two electrodes;
and wherein said motion sensor ~~(9)~~ is an integrated sensor comprising at least a part of at least one display cell ~~(110B)~~ of the display device.

9. (CURRENTLY AMENDED) Wave generator according to claim 8, wherein said acoustic transducer means ~~(140)~~ are integrated transducer means comprising at least a part of at least one display cell ~~(110A)~~ of the display device.

10. (CURRENTLY AMENDED) Wave generator according to claim 9, wherein said integrated motion sensor ~~(9)~~ comprises a first group ~~(119)~~ of display cells ~~(110B)~~, and wherein said integrated transducer means ~~(140)~~ comprise a second group ~~(141)~~ of display cells ~~(110A)~~, said first and second groups ~~(119, 141)~~ differing from each other.

11. (CURRENLTY AMENDED) Wave generator according to claim 8, wherein the display device ~~(100)~~ comprises a plurality of spacers ~~(105)~~ between the said plates ~~(102, 103)~~;
wherein the density of spacers ~~(105)~~ in a display area ~~(151)~~ corresponding with sensor cells ~~(110B)~~ is less than the density of spacers ~~(105)~~ in regions outside said display area ~~(151)~~.

12. (CURRENTLY AMENDED) Wave generator according to claim 8, wherein said display device ~~(100)~~ is a liquid crystal display device comprising a liquid crystal layer arranged between said two plates ~~(102, 103)~~.

13. (CURRENTLY AMENDED) Wave generator according to claim 1, being subdivided into a plurality of sections ~~(150),~~ each section ~~(150)~~ comprising an associated acoustic transducer means ~~(140)~~ and at least one associated feedback means ~~(151),~~ wherein a drive signal for an acoustic transducer means ~~(140)~~ of a section ~~(150)~~ is generated on the basis of the feedback signal from the corresponding feedback means ~~(151)~~.

14. (CURRENTLY AMENDED) Electronic apparatus ~~(200),~~ comprising:
a wave generator according to claim 1;
an acoustic driver ~~(AD)~~ comprising:

- a signal input for receiving an input signal ~~(S_{IN});~~
- a feedback input for receiving a feedback signal ~~(S_F)~~ from the feedback means ~~(110B);~~
- a drive output coupled to an input of the acoustic transducer means ~~(110A);~~

the acoustic driver ~~(AD)~~ being adapted to generate at its drive output a corrected drive signal ~~(S_D)~~ on the basis of the input signal ~~(S_{IN})~~ and the feedback signal ~~(S_F)~~.

15. (CURRENTLY AMENDED) Method for generating sound using a panel-shaped acoustic wave generator ~~(1A; 1B; 101)~~ comprising two plates ~~(2, 3; 102, 103)~~ arranged substantially parallel at a distance from each other;
the method comprising the step of generating a feedback signal ~~(S_A)~~ representing a relative motion of at least a portion of one of said plates with respect to at least a portion of the other of said plates.

16. (CURRENTLY AMENDED) Method according to claim 15, wherein said feedback signal ~~(S_A)~~ is generated using a capacitive motion sensor ~~(9)~~ having sensor components ~~(11, 12; 111B, 112B)~~ mechanically coupled to said plates ~~(2, 3; 102, 103)~~.

Respectfully submitted,

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